Application No. <u>09/649</u>,084

Attorney's Docket No. 016660-055

Page 2

and Y axes to be oriented along said line at all times during each wire

bonding operation.

REMARKS

The foregoing amendments are being made to make explicit features of the invention

that were inherent to the claimed subject matter, namely that the longitudinal axis of the

transducer is fixed along a line between the X and Y axes, so that the transducer is oriented

along that line at all times. Since each of the Quick et al, Ellis et al and Cheng et al

references disclose a transducer with rotatable head, they do not anticipate nor otherwise

suggest the claimed subject matter.

Favorable consideration is respectfully requested.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

James A. LaBarre

Registration No. 28,632

P.O. Box 1404

Alexandria, Virginia 22313-1404

(703) 836-6620

Date: January 10, 2002

Application No. <u>09/649,084</u> Attorney's Docket No. <u>016660-055</u> Page 1

Attachment to Preliminary Amendment dated January 10, 2002

Marked-up Claim 1

- 1. (Twice Amended) Wedge wire bonding apparatus comprising:
 - (a) means for supporting a workpiece,
 - (b) a bonding head including a transducer having a longitudinal axis,
 - (c) means for causing relative movement of the workpiece and the transducer along orthogonal X and Y axes simultaneously, and
 - (d) means for supporting the bonding head above the workpiece such that the longitudinal axis of said transducer [lies, at all times during a wire bonding operation,] is fixed along a line dividing said X and Y axes to be oriented along said line at all times during each wire bonding operation.